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# **WATER SUPPLY OUTLOOK FOR IDAHO**

and  
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

UNITED STATES DEPARTMENT of AGRICULTURE...SOIL CONSERVATION SERVICE,  
and  
IDAHO STATE RECLAMATION ENGINEER

Data included in this report were obtained by the agencies named above in cooperation with Federal, State and private organizations listed inside the back cover of this report.

AS OF  
**MAY 1, 1968**

## TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season as they affect runoff will add to be an effective average. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1400 snow courses in Western United States and in the Columbia Basin in British Columbia. In the near future, it is anticipated that automatic snow water equivalent sensing devices along with radio telemetry will provide a continuous record of snow water equivalent at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data or reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

## PUBLISHED BY SOIL CONSERVATION SERVICE

D. A. WILLIAMS, Administrator

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, Western Regional Technical Service Center, Room 507, 701 N. W. Glisan, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	P. O. Box "F", Palmer, Alaska 99645
Arizona	6029 Federal Building, Phoenix, Arizona 85205
Colorado (N. Mex.)	12417 Federal Building, Denver, Colorado 80202
Idaho	P. O. Box 38, Boise, Idaho 83707
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1218 S. W. Washington St., Portland, Oregon 97205
Utah	4012 Federal Building, Salt Lake City, Utah 84111
Washington	360 Federal Office Building, Spokane, Washington 99201
Wyoming	P. O. Box 340, Casper, Wyoming 82602

## PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia





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FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

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# WATER SUPPLY OUTLOOK for IDAHO



## GENERAL SUMMARY FOR MAY 1, 1968

Snowfall and precipitation during April was well below normal. At high elevations in the mountains a few snow courses actually gained in water content over the April 1 measurements. However, even at these sites, the actual snowfall was below normal for the month and the major snow melt has not started. At the middle and low elevation snow courses, the snow has melted.

The area of snow cover at this time for production of streamflow is much smaller than normal. This is a critical point because it results in the rivers' flow falling early in the season. Practically all small rivers and streams in southern Idaho, without adequate storage facilities, face a critically low water supply outlook for the remainder of the season. On the major rivers in Idaho, stored water has been used all month to make up for the deficiency of inflow to the reservoirs.

Soil moisture beneath the snow pack at high elevations has not changed significantly and is near normal. The excellent soil moisture that we had at the middle and low elevation areas dried out considerably during April. This was most unfortunate because rain would have produced excellent runoff if it had occurred on these soils early in April. At this time, it will take an unusually heavy rain to produce significant runoff because the dry soils can now absorb a great deal of moisture.

Stored water is so important for this season and possibly for 1969 that all water users should put into effect every water conservation practice possible.

Special assistance and consultation in water conservation practices and irrigation management are available at the County Agent's office, the local Soil and Water Conservation District office, and the Soil Conservation Service.

## RESERVOIR STORAGE (1,000 Ac. Ft.)

RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	1948-62 AVERAGE
<u>UPPER COLUMBIA BASIN</u>				
<u>Clark Fork - Pend Oreille</u>				
Hungry Horse	3428.0	2304.0	1333.0	2097.0*
Flathead	1791.0	707.4	816.1	968.0
Pend Oreille	1561.0	930.9	793.2	860.1
Noxon	334.6	101.1	39.7	--
<u>Spokane</u>				
Coeur d'Alene	238.5	127.0	172.0	347.8
<u>SNAKE BASIN</u>				
<u>Snake</u>				
Jackson Lake	847.0	611.5	493.6	422.9
Palisades	1200.0	1021.4	708.2	--
American Falls	1700.0	1672.0	1597.7	1625.1
Island Park	127.0	133.9	132.5	127.4
Grassy Lake	15.2	10.5	9.4	12.4
Brownlee	980.2	568.5	339.0	--
<u>Goose-Trapper Creeks</u>				
Oakley	74.4	19.3	16.5	25.5
<u>Salmon Falls Creek</u>				
Salmon Falls	182.6	31.7	27.7	47.4
<u>Big Lost</u>				
Mackay	44.2	37.0	28.7	33.3
<u>Big Wood</u>				
Magic	191.5	171.2	110.6	171.1
<u>Little Wood</u>				
Little Wood	30.0	30.1	21.2	18.2*
<u>Fish Creek</u>				
Carey Valley	14.4	N.R.	14.0	--
<u>Boise</u>				
Anderson Ranch	423.2	311.7	191.2	239.7
Arrowrock	286.6	166.7	206.0	201.7
Lucky Peak	278.2	233.3	39.3	198.4*
Lake Lowell (Deer Flat)	169.0	140.9	164.3	157.9
<u>Owyhee</u>				
Owyhee	715.0	435.2	458.5	553.6
<u>Payette</u>				
Cascade	653.2	369.9	185.6	--
Deadwood	161.9	102.5	69.1	85.0
<u>GREAT BASIN</u>				
<u>Bear</u>				
Bear Lake	1421.0	1144.7	1146.1	983.5
* Period of Record.				

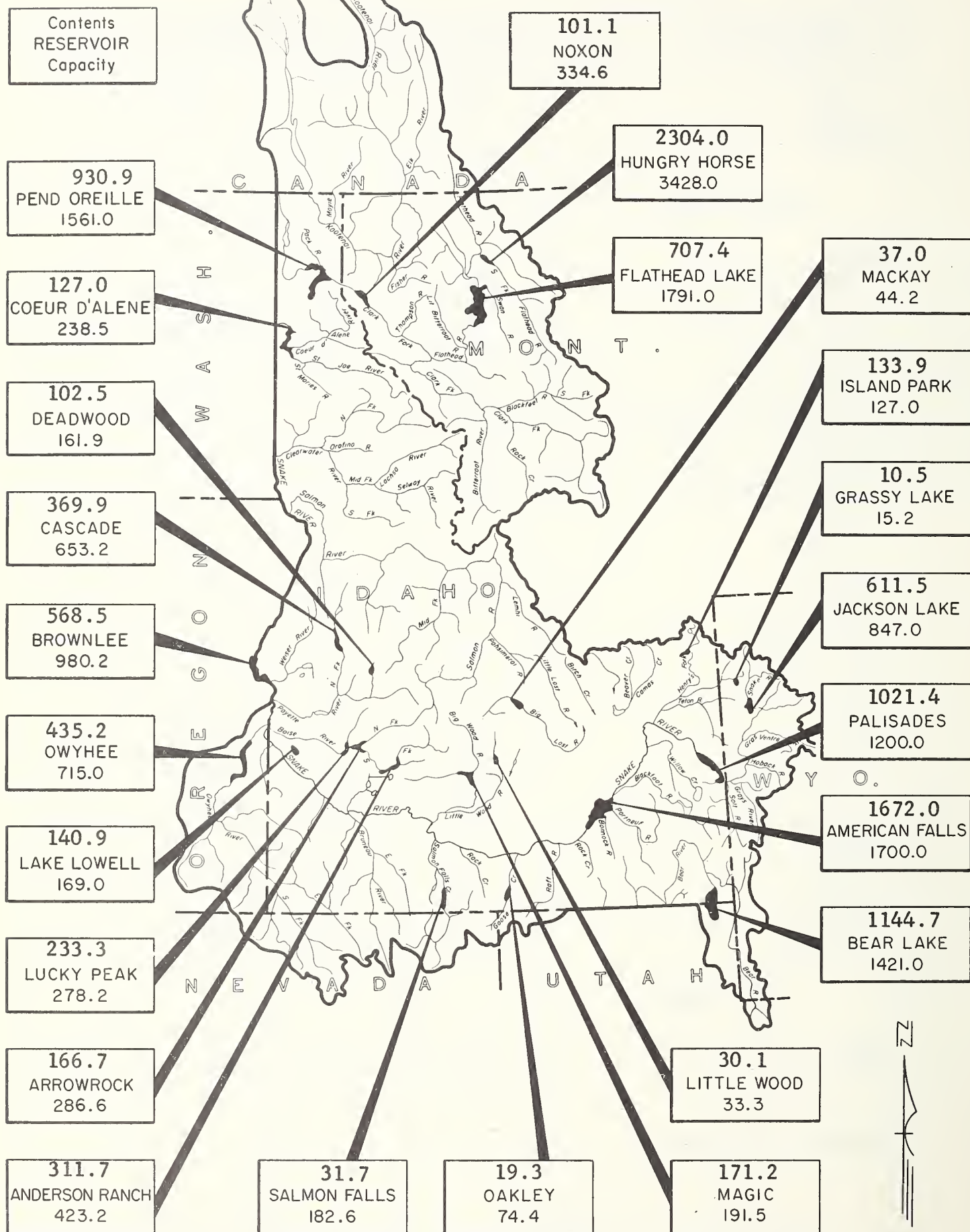


# RESERVOIR STORAGE

USABLE CONTENTS (1,000 Acre Feet)

MAY 1, 1968

50 0 50 100 150  
SCALE IN MILES



# PROSPECTIVE STREAMFLOW

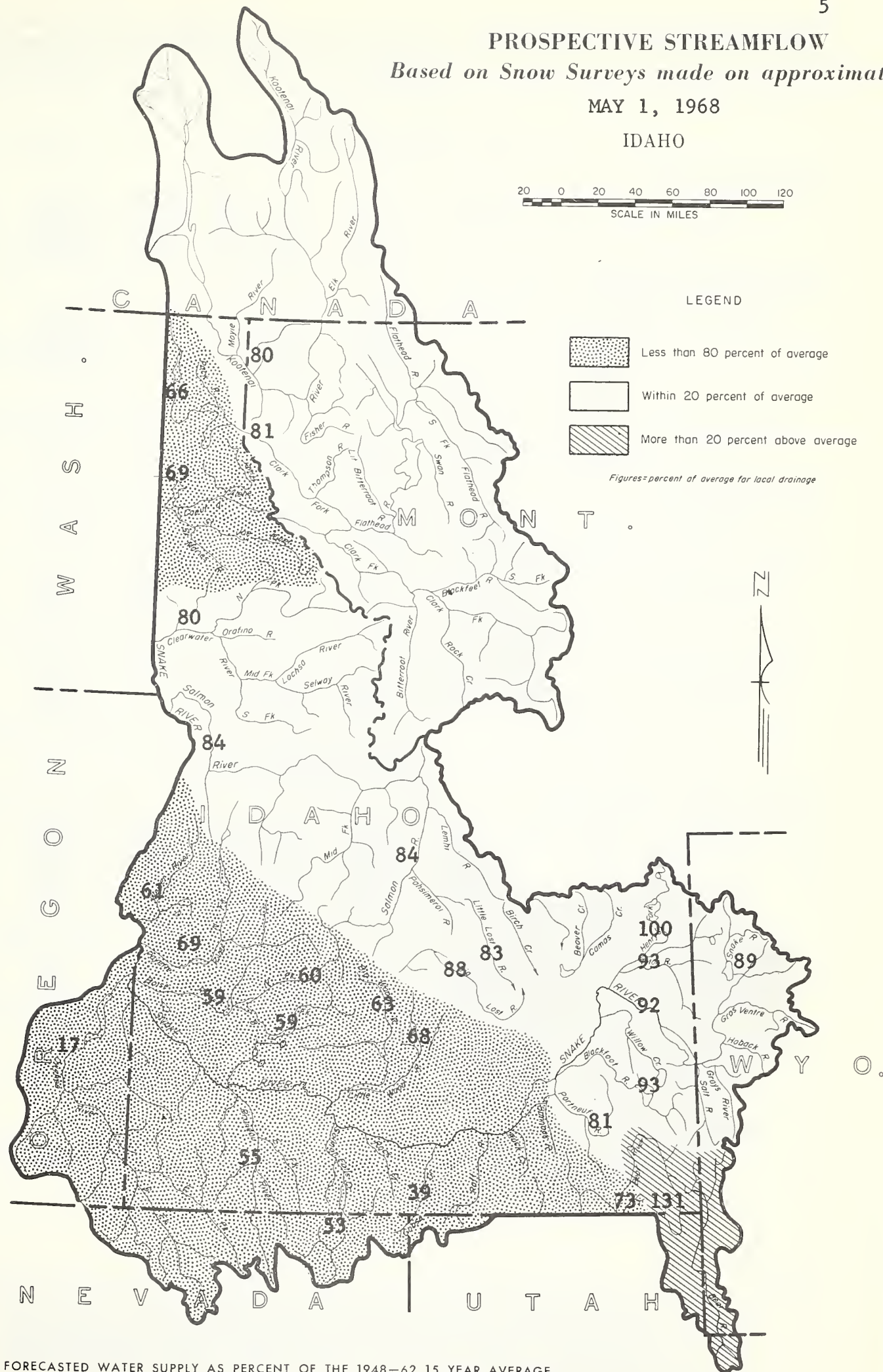
Based on Snow Surveys made on approximately  
MAY 1, 1968  
IDAHO



## LEGEND

- Less than 80 percent of average
- Within 20 percent of average
- More than 20 percent above average

Figures=percent of average for local drainage



FORECASTED WATER SUPPLY AS PERCENT OF THE 1948-62 15 YEAR AVERAGE



STREAMFLOW FORECASTS<sup>c</sup> (1,000 Ac. Ft.)

STREAM and/or FORECAST POINT		FORECAST THIS YEAR	FORECAST PERIOD	LAST YEAR	1948-1962 AVERAGE	THIS YEAR AS PERCENT OF AVERAGE
<u>UPPER COLUMBIA BASIN</u>						
<u>KOOTENAI RIVER</u>						
Leonia	(at)	6700	May-Sep	9606	8416	80
		5800	May-Jul	8589	7268	80
		4550	May-Jun	6693	5690	80
<u>PEND OREILLE RIVER</u>						
<u>Clark Fork River</u>						
Whitehorse Rapids	(at)	10220	May-Sep	--	12580	81
		9250	May-Jul	--	11369	81
		7700	May-Jun	--	9499	81
<u>Priest River</u>						
Priest River 1/	(nr)	630	May-Jul	774	745	66
<u>SPOKANE RIVER</u>						
Post Falls 2/	(at)	1550	May-Sep	--	2262	69
<u>Coeur d'Alene River</u>						
Cataldo	(nr)	570	May-Sep	851	886	64
		530	May-Jul	807	825	64
<u>St. Joe River</u>						
Calder	(at)	700	May-Sep	--	1099	64
		660	May-Jul	--	1029	64
<u>SNAKE RIVER BASIN</u>						
<u>SNAKE RIVER - MAIN STEM</u>						
Moran 3/	(at)	770	Apr-Sep	908	865	89
Heise 4/	(nr)	3200	May-Sep	3888	3487	92
Blackfoot 5/	(nr)	3240	May-Jul	4211	3602	90
Weiser	(at)	3100	May-Sep	--	5332	58
<u>Henrys Fork</u>						
Ashton 6/	(nr)	510	May-Sep	641	508	100
Rexburg 7/	(nr)	1000	May-Sep	1345	1113	90
<u>Teton River</u>						
St. Anthony	(nr)	330	May-Sep	431	355	93
<u>Blackfoot River</u>						
Blackfoot						
Reservoir Inflow		95	Apr-Sep	--	102	93

(c) Assuming normal meteorological conditions. 1/ Observed flow corrected for storage in Priest Lake. 2/ Observed flow corrected for storage in Coeur d'Alene Lake and diversions by Spokane Valley Farms Company and Rathdrum Prairie canals. 3/ Corrected for storage in Jackson Lake. 4/ Corrected for storage in Jackson Lake and Palisades. 5/ Corrected for storage in Jackson Lake, Palisades, Island Park, Henry's Lake, Grassy Lake and diversions between Heise and Blackfoot. 6/ Corrected for storage in Henry's Lake and Island Park Reservoir. 7/ Corrected for storage in Henry's Lake, Island Park, Grassy Lake and diversions between Ashton and Rexburg.



STREAM and/or FORECAST POINT		FORECAST THIS YEAR	FORECAST PERIOD	LAST YEAR	1948-1962 AVERAGE	THIS YEAR AS PERCENT OF AVERAGE
<u>Portneuf River</u>						
Topaz	(at)	50	May-Sep	--	62	81
<u>Oakley Reservoir Inflow</u>		7	May-Sep	15.5	17.9	39
<u>Salmon Falls Creek</u>						
San Jacinto	(nr)	26	May-Sep	57	49	53
		24	May-Jul	53	46	53
<u>Bruneau River</u>						
Hot Springs	(nr)	82	May-Sep	157	150	55
<u>Little Lost River</u>						
Howe	(nr)	24	May-Sep	--	29	83
<u>Big Lost River</u>						
Howell Ranch	(at)	145	May-Sep	324	170	85
		100	May-Jun	213	120	83
Mackay <u>1/</u>	(nr)	125	May-Sep	282	143	88
<u>Big Wood River</u>						
Hailey <u>2/</u>	(at)	180	May-Sep	448	284	63
Magic Reservoir Inflow <u>3/</u>		80	May-Jul	318	162	49
<u>Little Wood River</u>						
High Five Creek	(ab)	40	May-Sep	122	59	68
<u>Boise River</u>						
Twin Springs	(nr)	370	May-Sep	611	613	60
		330	May-Jul	564	561	59
Boise <u>4/</u>	(nr)	740	May-Sep	--	1250	59
<u>South Fork</u>						
Anderson Dam <u>5/</u>	(at)	285	May-Sep	540	483	59
<u>Owyhee River</u>						
Gold Cr., Nev. <u>6/</u>	(nr)	3	May-Jul	7	10	30
Owyhee, Nev. <u>6/</u>	(nr)	10	May-Jul	40	42	24
Lake Owyhee		32	May-Sep	277	184	17
net inflow <u>7/</u>		25	May-Jul	248	168	15
<u>Jordan Creek</u>						
Lone Tree Creek	(ab)	8	May-Jul	--	98	16

(c) Assuming normal meteorological conditions. 1/ Observed flow corrected for storage in Mackay Reservoir and diversion in Sharp Ditch. 2/ Combined discharge of Big Wood River and Big Wood Slough corrected for diversions. 3/ Combined flow Big Wood River nr. Bellevue and Camas Creek nr. Blaine. 4/ Corrected for storage in Arrowrock, Anderson Ranch and Lucky Peak. 5/ Corrected for storage in Anderson Ranch Reservoir. 6/ Corrected for storage in Wild Horse Reservoir. 7/ From U.S.B.R. records of inflow.

STREAMFLOW FORECASTS <sup>c</sup>(1,000 Ac. Ft.)

STREAM and/or FORECAST POINT			FORECAST THIS YEAR	FORECAST PERIOD	LAST YEAR	1948-1962 AVERAGE	THIS YEAR AS PERCENT OF AVERAGE
<u>Payette River</u>							
Horseshoe Bend	1/	(nr)	1100	May-Sep	1620	1580	69
Banks	2/	(nr)	580	May-Jul	--	846	69
<u>North Fork</u>							
Cascade	3/	(at)	330	May-Sep	--	483	69
Banks	3/	(nr)	415	May-Sep	--	604	69
<u>Weiser River</u>							
Weiser ab. Crane Creek	4/		170	May-Sep	--	280	61
<u>Salmon River</u>							
Whitebird		(at)	5200	May-Sep	7064	6218	84
Challis		(nr)	690	May-Sep	--	822	84
			595	May-Jul	--	710	84
<u>Clearwater River</u>							
Spalding		(at)	5800	May-Sep	7084	7240	80
<u>GREAT BASIN</u>							
<u>BEAR RIVER</u>							
Harer		(at)	265	May-Sep	--	202	131
<u>Montpelier Creek</u>							
Montpelier		(nr)	6.8	May-Sep	--	9.4	72
<u>Cub River</u>							
Preston		(nr)	32	May-Sep	--	44*	73

\*Partially estimated.

(c) Assuming normal meteorological conditions. 1/ Corrected for storage in Cascade and Deadwood Reservoirs. 2/ Corrected for storage in Deadwood Reservoir. 3/ Corrected for storage in Cascade Reservoir. 4/ Observed flow of Weiser River nr. Weiser minus observed flow of Crane Creek at mouth.

VALLEY PRECIPITATION 1/  
Division Averages and Departures  
In Inches

DRAINAGE DIVISIONS	Fall		Winter		Spring	
	Sep-Oct. 1967		Nov. '67-Mar. '68		April 1968	
	Obs.	Dep. <u>2/</u>	Obs.	Dep. <u>2/</u>	Obs.	Dep. <u>2/</u>
Kootenai, Canada & U. S.	4.88	+0.42	12.81	-1.28	1.33	-0.28
Flathead	3.67	+0.29	7.57	-2.53	1.05	-0.66
Clark Fork	3.61	+1.84	4.04	-0.62	0.74	-0.15
Pend Oreille-Spokane	5.48	+0.48	15.98	-2.95	1.32	-0.89
Upper Snake	3.01	+0.15	9.09	-1.66	1.17	-0.31
Snake River Plain	1.26	+0.04	3.70	-0.79	0.34	-0.36
Salmon-Payette-Boise	3.39	+0.99	8.85	-2.50	0.74	-0.71
Clearwater	5.39	+1.38	12.58	-1.41	2.39	-0.08
Southeastern Oregon	1.28	-0.06	3.56	-1.83	0.43	-0.26

1/ Preliminary analysis by U. S. Weather Bureau from data furnished by Meteorological Service of Canada and U. S. Weather Bureau.

2/ Departure from 15-year (1948-62) drainage division average.



## SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
			DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	
NAME	NO.	ELEVATION				LAST YEAR	AVERAGE <sup>b</sup>

UPPER COLUMBIA RIVER BASINKOOTENAI RIVER

Smith Creek	16A1	4800	4/29	98	44.9	61.9	47.5*
-------------	------	------	------	----	------	------	-------

PEND OREILLE - PRIEST RIVER

Benton Meadow	16A2	2344	4/29	0	0.0	0.0	0.0*
Benton Spring	16A3	4900	4/29	27	11.8	23.0	18.2
Schweitzer Bowl	16A6	4500	4/29	51	23.0	37.5	--
Schweitzer Ridge	16A5	6100	4/29	107	44.8	61.0	--

SPOKANE RIVER

Copper Ridge	16B2	4800	4/29	30	15.3	34.0	29.3
#Forty-nine Meadows	15B3	5000	4/30	41	21.7	32.4	32.3*
Fourth of July Summit	16B3	3100	5/1	0	0.0	0.0	--
Granite Peak	15B13	6000	4/30	106	47.8	55.4	--
Lookout	15B2	5250	5/1	67	28.2	42.4	36.4
#Lost Lake	15B14	6000	4/30	117	56.4	65.8	--
Lower Sands Creek	16B1	3400	4/29	18	8.2	16.6	14.2*
Medicine Ridge	15B4	6150	4/30	115	52.0	57.4	--
Outlaw Creek	15B12	3750	4/30	5	3.0	13.2	--
Pegleg Mountain	15B15	5735	4/30	13	7.2	--	--
Timber Camp Flat	15B16	4300	4/30	0	0.0	--	--

LOWER SNAKE RIVER BASINPALOUSE RIVER

Crumarine Creek	16C6	3340	4/28	0	0.0	T	0.0*
East Twin	16C3	4050	4/28	0	0.0	T	0.0*
Howard Creek	16C5	3450	4/28	0	0.0	T	0.0*
Moscow Mountain	16C2	4400	4/28	T	T	14.8	12.0*
West Twin	16C4	4250	4/28	0	0.0	T	0.1*

CLEARWATER RIVER

Anderson Butte (A)	15D7	6800	4/30	84	32.7	--	--
Anderson Ridge (A)	15D8	5400	4/30	12	5.3	--	--
Buck Meadows	15D5	5600	4/29	62	29.7	37.0	--
Cayuse Airstrip	15C3	3700	4/28	0	0.0	0.0	1.2*
Coolwater Mountain	15C7	6200	4/29	69	29.9	37.2	--
Coolwater Mountain (R)	15C7	6200	5/1	--	23.9	41.1	--
Copper Butte (A)	15D10	6000	4/30	87	36.5	39.1	--
Crater Meadows	15C9	6100	4/28	102	48.5	50.6	--
Crooked Fork	14C10	3800	4/26	0	0.0	4.0	--
Cottonwood Butte	--	5140	4/29	8	2.7	--	--
Culdesac	15B19	3050	4/30	0	0.0	--	--

(b) 1948-62, 15 year period. \* Not located directly on this drainage. \* Estimated 1948-62, 15 year Average. (A) Aerial observation; Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.



## SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
			DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	
NAME	NO.	ELEVATION				LAST YEAR	AVERAGE <sup>b</sup>
Disgrace Butte (A)	15D11	6600	4/30	51	19.8	31.0	--
Elk Butte	16C15	5550	4/30	49	23.9	42.4	--
Elk Mountain (A)	15D13	6900	4/30	93	35.3	43.2	--
Falls Point (A)	15C11	4600	4/28	T	T	15.1	--
Fish Lake Airstrip	15C2	5000	4/28	88	38.0	46.8	45.4*
Forty-nine Meadows	15B3	5000	4/30	41	21.7	32.4	32.3*
Goat Lake	14C9	6600	4/28	129	58.2	56.4	--
#Granite Peak	15B13	6000	4/30	106	47.8	55.4	--
Hemlock Butte	16C6	5500	4/28	100	45.6	52.4	--
Hemlock Butte (R)	16C6	5500	5/1	--	42.5	64.8	--
Hemlock Butte (SP)	16C6	5500	5/1	--	43.1	64.8	--
#Hoodoo Basin	15C8	6000	5/3	109	47.4	62.0	--
#Hoodoo Basin(SP) Mont.	15C8	6000	5/1	--	46.3	57.9	--
#Hoodoo Creek Mont.	15C1	5900	5/3	101	43.0	57.6	50.2*
Horse Point (A)	15D21	5700	4/30	24	10.3	--	--
Indian Hill (A)	15D22	6100	4/30	17	7.1	--	--
Lolo Pass	14C5	5230	4/26	68	28.0	37.0	31.8*
Lost Lake	15B14	6000	4/30	117	56.4	65.8	--
Lower Snowhaven	--	5250	4/29	17	6.8	--	--
Meadow Creek Lookout (A)	15D17	7000	4/30	85	32.3	--	--
#Medicine Ridge	15B4	6150	4/30	115	52.0	57.4	--
Mill Site (SP)	15D18	6700	4/29	--	19.5	39.2	--
Mountain Meadows	15D6	6300	4/29	64	27.5	29.8	--
#Nez Perce Pass Mont.	14D1	6575	4/29	36	15.6	20.9	13.3
Orogrande Mountain	15D4	7800	4/28	123	50.8	48.2	--
Orogrande Mountain (R)	15D4	7800	5/1	--	45.4	48.9	--
Pierce Rgr. Sta.	15C5	3170	5/1	0	0.0	0.7	1.6*
Powell Ranger Station	14C6	4230	4/26	0	0.0	0.0	--
Sable Hill (A)	15D20	6000	4/30	27	11.3	22.8	--
Savage Pass	14C4	6600	4/26	72	28.6	33.2	27.7*
Shanghai Summit	15C4	4600	4/28	26	14.6	27.4	25.2*
Upper Snowhaven	--	5600	4/29	25	10.4	--	--

## SALMON RIVER

Big Creek Summit	15E2	6600	5/2	60	26.8	44.8	36.8*
Borah (A)	13E8	8250	5/3	6	2.6	12.1	--
#Boulder Creek	16D1	5500	4/30	9	3.8	20.6	--
Brundage Mountain	16D6	7560	4/26	106	44.9	67.8	--
Chapman Creek	16D2	4215	4/29	0	0.0	1.3	0.3*
#Deadwood Summit	15E4	7000	5/2	73	34.6	59.4	48.5*
Doublespring Pass (A)	13E25	8400	5/3	8	3.4	16.1	--
#Galena Summit	14F12	8795	4/29	50	19.2	32.8	23.3*
#Gibbons Pass Mont.	13D2	7100	4/29	55	22.8	27.2	23.1
Johns Creek	16D3	3805	4/29	0	0.0	0.0	0.0*
Leatherman Pass (A)	13E24	9800	5/3	51	19.9	39.3	--
Mill Creek Summit	14E1	8870	5/5	48	18.7	32.0	--
Moose Creek	13D16	6200	4/26	38	15.7	20.0	13.0*
Morgan Creek	14E4	7580	5/2	16	6.9	19.8	--

(b) 1948-62, 15 year period. # Not located directly on this drainage. \* Estimated 1948-62, 15 year Average. (A) Aerial observation; Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.



## SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
			DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	
NAME	NO.	ELEVATION				LAST YEAR	AVERAGE <sup>b</sup>
#Rock Flat Summit	16E1	5200	4/26	37	14.8	22.5	14.9*
Twin Peaks (A)	14E3	10300	5/3	60	23.4	39.3	--
Vienna Mine (A)	14F4	8900	4/28	69	26.5	41.0	38.3*
Whitebird Summit	16D5	4390	4/29	0	0.0	3.0	0.6*

Lemhi River

Above Gilmore (A)	13E19	8200	5/3	22	9.4	22.2	--
Aspen-Hall Pass (A)	13E21	8110	5/3	28	12.1	21.2	--
Copes Camp (A)	13E17	7500	5/3	13	5.6	15.1	--
Gertson Creek (A)	13D17	8050	4/28	14	6.0	17.1	--
Hall Creek (A)	13E20	7560	5/3	12	5.2	12.4	--
Meadow Lake (A)	13E18	9100	5/3	48	18.7	33.8	--
Schwartz Lake (A)	13E16	8500	5/3	35	13.6	25.8	--

## SOIL MOISTURE

STATION		PROFILE (Inches)		SOIL MOISTURE (Inches)			
		DEPTH	CAPACITY	DATE	THIS YEAR	LAST YEAR	2 YEARS AGO
NAME	ELEVATION						
<u>SPOKANE RIVER</u>							
Fourth of July Summit	3100	48	11.6	5/1	10.2	10.2	10.0
Lookout	5250	48	11.0	5/1	8.4	8.3	8.5
<u>CLEARWATER RIVER</u>							
Brown	3100	30	6.7	4/29	5.6	5.6	5.5
Midway	2200	36	6.1	4/29	5.0	5.1	4.9
<u>SALMON RIVER</u>							
Mill Creek Summit	8870	48	8.4	5/5	7.1	3.0 <sup>a</sup>	4.8 <sup>a</sup>
<u>Lemhi River</u>							
Above Gilmore	8200	60	5.4	3/28	3.2	1.8 <sup>a</sup>	2.8 <sup>a</sup>
Meadow Lake	9100	48	4.4	3/28	2.5	1.6 <sup>a</sup>	1.9 <sup>a</sup>
a April Measurement							

(b) 1948-62, 15 year period. \* Not located directly on this drainage. \* Estimated 1948-62, 15 year Average. (A) Aerial observation; Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

## SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
			DATE OF SURVEY	SNOW DEPTH (inches)	WATER CONTENT (inches)	WATER CONTENT (inches)	
NAME	NO.	ELEVATION				LAST YEAR	AVERAGE <sup>b</sup>

MIDDLE SNAKE RIVER BASIN - NORTHSIDELITTLE LOST RIVER

Fairview Guard Sta.	13E5	6750	4/30	0	0.0	T	--
Lost Garfield	13E3	6600	4/30	0	0.0	0.0	--
Moonshine	13E6	7450	4/30	21	8.2	17.6	--
Sawmill Canyon	13E4	6900	4/30	0	0.0	10.2	--
Wet Creek Summit	13E7	7600	5/1	23	8.5	22.8	--

BIG LOST RIVER

Cherry Creek Pass (A)	13F13	8900	5/3	0	0.0	13.0	--
Copper Basin (A)	13F2	7650	5/3	11	4.7	26.0	--
#Doublespring Pass (A)	13E25	8400	5/3	8	3.4	16.1	--
Dry Fork (A)	13F20	7340	5/3	0	0.0	22.5	--
Fishpole Lake (A)	13F8	9350	5/3	45	17.3	--	--
Grasshopper (A)	13F7	8400	5/3	0	0.0	--	--
#Leatherman Pass (A)	13E24	9800	5/3	51	19.9	39.3	--
Lost-Wood Divide (A)	14F3	7900	5/3	21	7.8	34.7	--
Mammoth Canyon (A)	13F17	8300	5/3	0	0.0	12.3	--
North Fork Meadow (A)	14F15	8150	5/3	11	4.7	22.8	--
Sage Creek (A)	14E5	7800	5/3	0	0.0	16.1	--
Slickrock (A)	13F14	8640	5/3	28	10.8	34.4	--
Stickney Mill (A)	14F2	7500	5/3	0	0.0	16.1	--

LITTLE WOOD RIVER

Garfield Rgr. Sta.	13F4	6554	4/26	0	0.0	6.8	0.5*
Muldoon	13F5	6300	4/26	0	0.0	1.0	0.0*
Porcupine (A)	14F14	8350	4/28	27	9.9	27.8	--
Swede Peak	13F9	7500	4/26	26	9.5	25.6	12.3*

BIG WOOD RIVER

#Couch Summit (A)	14F10	6950	4/28	12	4.9	24.6	13.4*
Dollarhide Summit (A)	14F8	8620	4/28	40	16.6	33.5	27.6*
Galena	14F1	7300	4/29	20	8.2	25.6	13.1*
Galena Summit	14F12	8795	4/29	50	19.2	32.8	23.3*
Graham Ranch	14F5	6200	4/30	3	1.2	14.9	--
#Lost-Wood Divide (A)	14F3	7900	5/3	21	7.8	34.7	--
Mount Baldy	14F9	9000	4/29	42	14.3	31.1	21.2*
#Porcupine (A)	14F14	8350	4/28	27	9.9	27.8	--
Soldier Rgr. Sta.	14F11	6100	5/1	0	0.0	0.0	--
#Vienna Mine (A)	14F4	8900	4/28	69	26.5	41.0	38.3*

(b) 1948-62, 15 year period. \* Not located directly on this drainage. \* Estimated 1948-62, 15 year Average. (A) Aerial observation; Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

## SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
			DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	
NAME	NO.	ELEVATION				LAST YEAR	AVERAGE <sup>b</sup>

BOISE RIVER

Atlanta Summit	15F4	7500	5/1	57	23.7	40.4	35.9*
Atlanta Summit (SP)	15F4	7500	5/1	--	23.0	--	--
Bad Bear	15F2	5500	4/30	0	0.0	6.2	--
#Bogus Basin	16F2	6120	4/30	25	9.8	26.5	22.3
Bogus Basin Road	16F4	5360	4/30	0	0.0	0.0	--
Couch Summit (A)	14F10	6950	4/28	12	4.9	24.6	13.4*
#Dollarhide Summit (A)	14F8	8620	4/28	40	16.6	33.5	27.6*
Moore's Creek Summit	15F1	6100	4/30	39	16.2	35.0	30.0
Road Creek	15F3	5550	5/1	0	0.0	--	--
#Soldier Rgr. Sta.	14F11	6100	5/1	0	0.0	0.0	--
Trinity Mountain	15F5	7780	4/25	70	29.4	--	44.5*
Trinity Mountain	15F5	7780	5/3	57	26.9	--	--
Trinity Mountain (SP)	15F5	7780	4/26	--	30.0	53.5	--
#Vienna Mine (A)	14F4	8900	4/28	69	26.5	41.0	38.3*

PAYETTE RIVER

#Big Creek Summit	15E2	6600	5/2	60	26.8	44.8	36.8*
Bogus Basin	16F2	6120	4/30	25	9.8	26.5	22.3
#Brundage Mountain	16D6	7560	4/26	106	44.9	67.8	--
Cozy Cove	15E8	5900	4/27	14	5.7	13.8	9.3
Crawford Rgr. Sta.	15E3	4800	5/2	0	0.0	0.0	0.0*
Deadwood Airstrip	15E10	5440	4/27	0	0.0	11.6	4.6*
Deadwood Dam	15E7	5290	4/27	14	5.8	13.9	13.4
Deadwood Summit	15E4	7000	5/2	73	34.6	59.4	48.5*
Rock Flat Summit	16E1	5200	4/26	37	14.8	22.5	14.9*
Shafer Butte	16F7	7480	4/30	32	13.8	--	--

WEISER RIVER

Boulder Creek	16D1	5500	4/30	9	3.8	20.6	--
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(b) 1948-62, 15 year period. # Not located directly on this drainage. \* Estimated 1948-62, 15 year Average. (A) Aerial observation; Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

## SOIL MOISTURE

STATION		PROFILE (Inches)		SOIL MOISTURE (Inches)			
NAME	ELEVATION	DEPTH	CAPACITY	DATE	THIS YEAR	LAST YEAR	2 YEARS AGO
<u>LITTLE LOST RIVER</u>							
Wet Creek Summit	8175	48	17.1	5/1	14.9	--	--
<u>LITTLE WOOD RIVER</u>							
Garfield R. S.	6554	36	5.2	4/26	4.8	4.8	5.3
<u>BIG WOOD RIVER</u>							
Galena	7300	48	10.1	4/29	8.5	6.2	8.9
Galena Summit	8795	48	5.8	4/29	1.8	1.5	2.4
<u>BOISE RIVER</u>							
Bad Bear	5500	72	6.3	4/30	5.5	--	5.5
Bogus Basin	6120	48	13.1	4/30	11.2	10.2	--
Bogus Basin Road	4830	48	7.1	4/30	5.8	5.8	5.5
Moore's Creek Summit	6100	60	8.8	4/30	7.5	7.5	7.7



## SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
			DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	
NAME	NO.	ELEVATION				LAST YEAR	AVERAGE <sup>b</sup>

MIDDLE SNAKE RIVER BASIN - SOUTHSIDERAFT RIVER

Boy Scout Camp (A)	13G2	7600	4/30	27	12.3	18.3	--
Clear Creek Meadows (A)	13H2	9050	4/30	51	20.9	37.6	--
Howell Canyon	13G1	8000	5/3	29	13.2	24.6	--
Summit Springs (A)	12G9	6400	4/30	0	0.0	3.5	--

GOOSE CREEK

Badger Gulch	14G3	6660	5/1	T	T	11.8	--
Bostetter Rgr. Sta. (A)	14G1	7500	4/30	3	1.3	15.8	--
Vi Pont (A)	13H3	7670	4/30	5	2.2	16.9	--

SALMON FALLS CREEK

#Bear Creek (A)	15H1	7800	4/29	37	15.2	27.0	21.0*
Cedar Creek (A)	14G5	7000	4/29	0	0.0	8.0	2.1*
Deadline	14G4	6900	4/26	31	13.8	20.8	18.8*
Goat Creek (A)	15H13	8800	4/29	40	16.4	25.4	19.4*
#Hummingbird Spgs. (A)	15H15	8945	4/29	50	20.5	33.0	25.1*
Magic Mountain	14G2	6700	4/26	23	10.3	15.4	15.4*
#Pole Creek R. S.	15H14	8330	4/29	54	19.7	24.2	22.2*
Red Point (A)	15H18	7940	4/29	0	0.0	18.0	--
Wilson Creek (A)	15G2	7500	4/29	0	0.0	18.8	--

BRUNEAU RIVER

Bear Creek (A)	15H1	7800	4/29	37	15.2	27.0	21.0*
Hummingbird Springs (A)	15H15	8945	4/29	50	20.5	33.0	25.1*
Pole Creek Rgr. Sta.	15H14	8330	4/25	54	19.7	24.2	22.2*
#Seventy-six Creek (A)	15H3	7100	4/29	0	0.0	8.0	--

OWYHEE RIVER

#Bear Creek (A)	15H1	7800	4/29	37	15.2	27.0	21.0*
#Seventy-six Creek (A)	15H3	7100	4/29	0	0.0	8.0	--
Silver City	16F3	6400	4/28	T	T	17.9	6.1*
South Mountain	16G1	6340	4/29	0	0.0	14.2	3.8*

(b) 1948-62, 15 year period. \* Not located directly on this drainage. \* Estimated 1948-62, 15 year Average. (A) Aerial observation; Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

## SOIL MOISTURE

STATION		PROFILE (Inches)		SOIL MOISTURE (Inches)			
NAME	ELEVATION	DEPTH	CAPACITY	DATE	THIS YEAR	LAST YEAR	2 YEARS AGO
<u>RAFT RIVER</u>							
Howell Canyon	8000	48	11.5	5/3	7.8	5.7	10.6
Sublett	6000	36	7.0	3/29	7.5	6.0 <sup>a</sup>	6.5 <sup>a</sup>
<u>GOOSE CREEK</u>							
Badger Gulch	6660	36	7.0	5/1	5.8	5.6	5.5 <sup>a</sup>
Trapper Creek	5300	36	10.0	5/1	7.6	4.7 <sup>a</sup>	7.6 <sup>a</sup>
<u>SALMON FALLS CREEK</u>							
Deadline	6900	36	7.4	4/26	7.9	7.9	7.3
Patrick Ranch	5720	36	7.7	4/25	6.7	6.0	4.9
Pole Creek R. S.	8330	48	12.7	4/25	9.0	6.5	--
<u>BRUNEAU RIVER</u>							
Bear Creek	7800	72	16.9	3/28	10.8	10.1 <sup>a</sup>	12.1 <sup>a</sup>
<u>OWYHEE RIVER</u>							
Mud Flat	5500	48	12.8	3/27	14.4	14.4 <sup>a</sup>	14.4
a April Measurement							



## SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
			DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	
NAME	NO.	ELEVATION				LAST YEAR	AVERAGE <sup>b</sup>

## UPPER SNAKE RIVER BASIN

## HENRYS FORK RIVER

Big Springs	11E9	6500	4/30	27	12.7	25.5	--
Grassy Lake	10E15	7230	5/1	75	33.6	37.8	33.1*
Island Park	11E10	6315	4/30	14	5.5	17.3	--
Sawtelle Mountain	11E32	9100	4/30	74	31.7	47.5	--
Valley View	11E8	6500	4/30	28	12.1	25.6	--

## TETON RIVER

Darby Canyon (A)	10F21	8250	4/30	60	24.7	28.2	--
Pine Creek Pass	11F2	6750	4/29	31	13.4	16.6	--
State Line	11F1	6400	5/3	0	0.0	16.0	--
Teton Pass	10F13	8500	4/29	107	42.0	34.0	37.8*

## BLACKFOOT RIVER

Slug Creek Divide	11G5	7225	5/3	20	8.8	21.6	--
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## SOIL MOISTURE

STATION		PROFILE (Inches)		SOIL MOISTURE (Inches)			
		DEPTH	CAPACITY	DATE	THIS YEAR	LAST YEAR	2 YEARS AGO
NAME	ELEVATION						
<u>HENRYS FORK RIVER</u>							
Island Park	6315	48	9.9	4/30	10.0	10.0	10.0
Valley View	6500	48	13.3	4/30	9.7	9.7	8.7
<u>TETON RIVER</u>							
Pine Creek Pass	6750	48	13.3	4/29	14.8	7.6	12.6
State Line	6400	48	14.8	4/29	14.8	10.8	14.7
Teton Pass	8500	48	10.5	4/29	9.2	8.5 <sup>m</sup>	11.8
<u>PORTNEUF RIVER</u>							
Lower Pebble	5800	36	7.6	3/27	8.5	6.0 <sup>a</sup>	8.3 <sup>a</sup>
Pebble Creek	6550	48	7.2	3/27	5.1	3.6 <sup>a</sup>	6.4 <sup>a</sup>
m March Measurement							
a April Measurement							

(b) 1948-62, 15 year period. \* Not located directly on this drainage. \* Estimated 1948-62, 15 year Average. (A) Aerial observation; Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

## SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
			DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	
NAME	NO.	ELEVATION				LAST YEAR	AVERAGE <sup>b</sup>

## GREAT BASIN

## BEAR RIVER

Emigrant Summit	11G6	7350	4/29	58	25.4	30.2	--
-----------------	------	------	------	----	------	------	----

Montpelier Creek

Giveout	11G16	6840	5/3	0	0.0	12.1	--
Little Beaver	11G20	6970	5/3	13	4.8	16.4	--
Montpelier Creek	11G18	6570	5/3	0	0.0	--	--
Whiskey Flat	11G21	6985	5/3	0	0.0	5.7	--

Mink Creek

Christensen Ranch	11G11	5600	4/29	0	0.0	3.9	0.0*
Dry Basin (A)	11G14	7900	4/28	80	33.6	35.1	--
#Emigrant Summit	11G6	7350	4/29	58	25.4	30.2	--
Horseshoe Basin (A)	11G15	8000	4/28	77	32.3	34.3	--
Liberty Spring	11G13	8600	4/29	97	38.9	47.6	--
Strawberry Creek	11G9	5800	4/29	10	4.4	10.9	1.3*
Strawberry Mink Divide	11G10	6800	4/29	41	18.1	28.6	13.3*

Cub River

Cub River R. S.	11G12	5400	4/30	0	0.0	0.0	0.0*
Willow Flat	11G4	6100	4/30	4	1.4	10.5	2.4*

## SOIL MOISTURE

STATION		PROFILE (Inches)		SOIL MOISTURE (Inches)			
		DEPTH	CAPACITY	DATE	THIS YEAR	LAST YEAR	2 YEARS AGO
NAME	ELEVATION						
<u>BEAR RIVER</u>							
Emigrant Summit	7350	36	8.2	4/29	4.0	4.1	6.6
Strawberry Creek	5800	48	12.7	4/29	12.7	12.8	12.2
<u>Montpelier Creek</u>							
Giveout Pass	7025	36	9.4	5/3	7.6	7.6	5.4 <sup>a</sup>
Jenson Ranch	6580	48	18.7	5/3	15.9	16.7	11.3 <sup>a</sup>
a April Measurement							

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# Agencies and Organizations Cooperating in Idaho Snow Surveys

## GOVERNMENT AGENCIES

### Canada:

Department of Lands, Forests, and  
Water Resources, British Columbia  
Department of Resources and Development,  
Water Resources Division

### States:

Idaho State Reclamation Engineer  
State of Idaho Department of Fish and Game  
University of Idaho  
Idaho State University  
Montana Agricultural Experiment Station  
Montana State Water Conservation Board  
Nevada Cooperative Snow Surveys  
Oregon Agricultural Experiment Station  
Oregon Cooperative Snow Surveys  
Oregon State Engineer and Corps of  
State Watermasters  
Utah Cooperative Snow Surveys  
Wyoming Cooperative Snow Surveys

### Federal:

U. S. Army Engineers  
U. S. Department of Agriculture  
Forest Service  
Agricultural Research Service  
U. S. Department of Commerce  
Environmental Sciences Service Administration,  
Weather Bureau  
U. S. Department of the Interior  
Bonneville Power Administration  
Bureau of Reclamation  
Fish and Wildlife Service  
Water Resources Division, Geological Survey  
Indian Service  
National Park Service  
Bureau of Land Management

## PUBLIC UTILITIES

The Montana Power Company  
Washington Water Power Company  
Idaho Power Company  
Utah Power and Light Company

## ORGANIZED PUBLIC AGENCIES

Big Lost River Irrigation District  
Boise Project Board of Control  
Little Wood River Irrigation District  
Jordan Valley Irrigation District  
Salmon Falls Creek Irrigation Company  
Twin Falls Soil Conservation District  
Twin Lakes Irrigation Company  
Big Wood Irrigation Company  
Owyhee Project - North & South Board of Control

## PRIVATE CORPORATIONS

Amalgamated Sugar Company

*Other organizations and individuals furnish valuable information for  
snow survey reports. Their cooperation is gratefully acknowledged.*

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